

6. Switching element according to claim 4, wherein the coil (6) is manufactured from a superconducting material.

7. Switching element according to claim 1, wherein the means (3) irradiate the electromagnetic high frequency in the form of at least one pulse.

17. Flow pump according to claim 15, wherein the alternating voltage has a frequency of 20 Hz and the closing time of the switching element is approximately 15 ms.

24. Method according to claim 22, wherein the electromagnetic high frequency is in the MHz range, preferably less than 200 MHz.

25. Method according to claim 22, wherein the high frequency is irradiated as one or more pulses.